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FAX NUMBER:



United States Department of the Interior

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IN REPLY

TO: Alisa Wana

BRANCH OF ENVIRONMENTAL QUALITY SERVICES

Office Number: (602) 379-6750 FAX Number: (602) 379-3833

ORGANIZATION: EPA
FROM: John Krawe
DESCRIPTION AND/OR MESSAGE:
Since the Work Plan is the "Scope of Work", a what about
incorporating qualification into the plan?
NUMBER OF PAGES: (W/COVER SHEET)
DATE SENT: 4-14-97

ROADS SHOP FACILITY WORK PLAN CONTRACTOR REQUIREMENTS

A.	WORK	PLAN FINALIZATION - EPA APPROVAL REQUIRED			
	site in El	aration of Work Plan Standard Operating Processafety and Health Plan, and deficiencies as PA correspondence dated October 8, 1996 for Exproval. Work may not commence nor is this resided until EPA Region IX has approved of the	outlined EPA Region reguirement		ls
	TOTAL	L - Work Plan Finalization			
В.	SITE	ACTIVITIES			
1.	Site	Mobilization and demobilization			ls
2.	Reat:	ing Oil Pipeline			
	a.	Excavation, removal, and disposal of 2000 feet of Pipeline (3.2.1)		/ft	sum
	b.	Draining and disposal of used heating oil (not to exceed 110 gal) (3.3.1)	/	gal	sum
	c.	Integrity testing and grouting of Pipeline under Hwy 51 (3.3.1)		· · · ·	ls
	d.	Excavation, transportation, and stockpile of 2000 cubic yds of heating oil contaminated soils		/yd	sum
	€.	Purchase, transportation, and backfill of 2000 cubic yards of borrow soils (3.2)		_/yd	sum
	f.	Backfill of soils removed			ls
	, g.	Assessment and sampling of subsurface in the area of Pipeline $(5.3.1)$			ls
	Subt	otal - Heating Oil Pipeline Closure			
з.	Inje	ction Well System Closure			
	a.	Excavation, transportation, and stockpile of 200 cubic yds of petroleum contaminated soils at the Injection Well (3.2.2)	l	_/yd	<u></u> \$um
	b.	Relocation of aboveground storage tank along Discharge Line alignment (3.2.3)			ls
	¢.	Excavation, removal, and disposal of 80 feet of Discharge Line from west end of Roads Shop to Discharge Outlet (3.2.3)		_/ft	sum
	d.	Removal and disposal of 15 55-gallon drums liquid and one 55-gallon drum sediment from drain (3.3.2)	liquid	/gal /gal	sum

10.	Site	Recordkeeping (7.2)		ls
9.	34 88	sment of ground water with the conduct of appling locations to delineate contamination a using direct push technology (5.6.3)	/hole	sw
8,	Site	Safety and Health (3.11, 7.1, & 7.3.1)		15
7.	Facil Surve	ity and Sampling Location lys (3.9, 3.10 & 7.3.2)		1s
	Subto	tal - Tank Closure Verification		-
	e.	Roads Shop AST Assessment (5.5)		_ls
	đ.	Removal and assessment of 500 -gallon heating oil tank as shown on Drawing 2 $(5-4)$		_ls
	c.	Jail UST Assessment (5.4)		ls
	ъ	Power Station UST Assessment (5.4)		_ls
	a.	Roads Shop Diesel UST Assessment (5.4)		_ls
6.	Tank	Closure Verification (3.5)		
5.	Soils	Logging (3.4)		_ls
	Subto	tal - Roads Shop Yard Cleanup		-
	b.	Excavation, characterization, transportation, and stockpile of 400 cubic yds of petroleum contaminated soils (3.2.4)	/yd	_sum
	a.	Removal and disposal of concrete pad (3.2.4)		_ls
4.	Roads	Shop Yard Cleanup		
	Subto	tal - Injection Well System Closure		-
	i.	Assessment and sampling of drain liquid and sediment (5.1.1)		
	h.	Assessment and sampling of subsurface in the area of South Sump, Discharge Line, Vertical Pipe, and Injection Well (5.1.2 to 5.1.7)		_ls
	ā.	Concrete fill of South Sump and Vertical Pipe (3.3.5)		_1s
	f.	Integrity testing and grouting of drain under facility (3.3.4)		_ls
	8.	two 55-gallon drums of used steam cleaner and petroleum residue (3.3.3)	/gal	_sum
	_	Steam Cleaning of drain and remover or		

11.	Field	QA/QC	
	a.	Sample designation (4)	ls
	ъ.	Equipment maintenance (7.4 & 7.5)	ls
	c.	Equipment decontamination and disposal (7.4 & 7.5)	ls
	Subto	tal - Field QA/QC	
TOTAL	- SIT	E ACTIVITIES -	
c.	WORK	PLAN REPORT	
1.	15 co	ng fees associated with the assembly of pies of the Report which fulfills the rements of the work plan	ls
2.	Heati	ng Oil Line System Closure Report	
	а.	Documentation of excavation and backfill quantities —	ls
	b.	Documentation of contaminant conditions in soils and ground water to include location and concentration	ls
	c.	Documentation of heating oil (if applicable) and piping removed, and location	ls
	d.	Recommendations for further site characterization and remediation	ls
	Subto	otal - Heating Oil Line System Closure Report	
3.	Inje	ction Well System Closure Report	
	a.	Documentation of excavation and backfill quantities	1s
	b.	Documentation of contaminant conditions in soils and ground water to include location and concentration	1s
	c.	Documentation of wastewater, piping and well removal, and location	1s
	đ.	Recommendations for further site characterization and remediation	1
	e.	Review and certification of closure by professional	1
	Subt	otal - Injection Well System Closure Report	
4.	Docu	mentation of contaminated soil removal in Roads Shop Yard	1
	a .	Documentation of excavation and backfill quantities	1

		in soils and ground water to include location and concentration	1s
	c.	Recommendations for further site characterization and remediation	ls
	Subto	tal - Roads Shop Yard Assessment and Removal Report	
5.	UST A	ssessment Reports (four sites)	1s
6 .	Gasol:	ine AST Assessment Report (one site)	ls
7.	Chara		
	a	Provide a description of the stratified layer with emphasis on the hydrogeology	ls
	b.	A cross sectional map of the formation to include the drinking water well and Roads Shop locations	ls
	c.	Gradient, direction and rate of ground water flow in the area of the grid established in Drawing 2	1s
	d.	Any known fractures or disruptions in the formation	ls
	e,	Maximum and average pump rates of, and standing water levels of Wells #1, #2, #3, #5, #6, and #7	1s
	Subto	tal - Eydrogeological Report	
8.	Analy	sis and Recommendations for Walls #1, #2, and #3 (3.6)	
	a.	Discussion of well design	ls
	b.	Discussion of contaminant concentrations, and contaminant/petroleum and water movement	1s
	c.	Recommended disposition	ls
	Subto	tal - Well Design and Construction Report	
9.	Drawi shall	ng Preparation - Soils Contamination (Data gaps be documented and discussed)(3.9)	
	ā.	Drawing depicting the extent of heating oil/diesel/used oil contamination in the soils described by at least three isoconcentration lines (8015-DRO)	16
	b.	Drawing depicting the extent of gasoline/volatile organic contamination in the soils described by at least three isoconcentration lines (8015-GRO)	1
	c.	Drawing depicting the extent of benzene contamination in the soils described by at least three isoconcentration lines (8240 and BTEX)	1

	d.	Drawing depicting the locations and dimensions of contaminated soil removal	ls
	Subto	tal - Soils Contamination Drawings	
10.	Drawi (Data	ng Preparation - Ground Water Contamination gaps shall be documented and discussed)(3.9)	
	sampl #6 wi fluct	obtained through Direct Push Technology or similar ing tools and data obtained from Wells #4, #5, and ll be used to develop the following drawings. Data uations to Wells #4, #5, and #6, during the three quarterly events will be discussed.	
	a.	Drawing depicting the extent of heating oil/diesel/used oil contamination on the ground water table described by at least three isoconcentration lines (8015-DRO)	ls
	b.	Drawing depicting the extent of gasoline/volatile organic contamination on the ground water table described by at least three isoconcentration lines (8015-GRO)	ls
	c.	Drawing depicting the extent of benzene contamination on the ground water table described by at least three isoconcentration lines (8240 and BTEX).	1e
Subto	tal -	Soils Contamination Drawings	
11.	Conclusions and Recommendations - Through the accomplishments of the Objectives of the work plan, the Bureau of Indian Affairs shall be provided with a summary of conclusions with regards to sources and pathways, and recommendations with regards to further site characterization and remediation. Furthermore, the BIA will be provided with any other recommendations pertinent to the findings		
TOTAL	- Wor	k Plan Report	
grand	TOTAL	\	